

**Determination of liquid level in a container or density of liquid in a container using a vibrating gimbal type body with compensation for temperature, pressure or viscosity variations to improve measurement accuracy**

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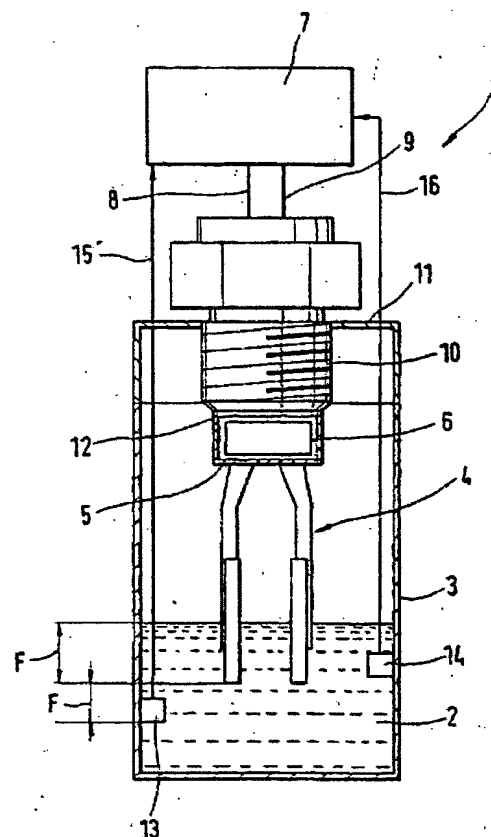
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**Abstract of DE10057974**

Method for determining or monitoring the height of a liquid in a container or for determining the liquid density. Method is based on setting a measurement body (4) vibrating and from the vibration response, determination of fluid height or density. The method compensates for the influence of external values, such as pressure or temperature on the vibration frequency of the vibrating body. Compensation method is based on determination of characteristic curves for the frequency change in the vibrating body caused by a change in pressure and temperature or in the viscosity. These are then used to adjust the measured frequencies of the vibrating body. An independent claim is made for a device for compensating for pressure, temperature or viscosity changes on a vibrating sensor level or density gauge.



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